

- **Attendance:**
 - Roger D, Ron Moore, Keith Gollwitzer, Me, Paul Derwent, Craig Moore, Cons Gattuso, Vaia, Ioanis K., Valeri L.
- **Machine Strategy:**
 - **Operations**
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 - **Linac**
 - Ion source
 - ◻ Coming together - put ion pump back tomorrow????? I thought today????
 - Klystron problem
 - ◻ Still issues.
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 - **Booster**
 - Booster Orbit correction program
 - ◻ Bill Marsh is working on application
 - ◻ Coming along
 - ◻ Close to testing it. Couple of weeks?
 - Push to 10Hz?
 - ◻ Need a plan
 - ◻
 - **Pbar**
 - Target
 - ◻ Still has shaft corrosion. 12 hour job
 - ◻ Torque is back down.
 - ◻ What was done yesterday is the first few hours of the 12 hour job.
 - ◻ If it gets stuck, have to trigger 12 hour.
 - Stacktail measurements done
 - ◻ More complete, but werent done right.
 - ◻ Figured out what the unexpected phase jumps. They were overdriving the beam.
 - ◻ Last measurement, lost the beam.
 - ◻ What is next?
 - ◆ do series of measurements. 1st set tomorrow.
 - ◆ Other measurements - stacking cycle worth of studies.
 - ◆ Hardware - swap polarity of amplifiers. Decide how to correct this. One week time scales.
 - Debuncher cooling
 - ◻ 3 days to fix cooling pickups. Cooling pickups are liquid He. Only one of two plats reporting
 - ◻ Weeks if have to pull out cooling tank.
 - ◻ May be heating the beam.
 - **Main Injector**
 - Transfer Efficiencies Accumulator to RR
 - ◻ Meeting yesterday.
 - ◻ See tails in Flying Wires.
 - ◻ If look at IPM in MI, see quad oscillations. Indicate a Beta-mismatch.
 - ◻ Have ripple on Accumulator injection kicker.
 - ◆ Know phase and amplitude - can back to kicker
 - ◆ Measure tbt oscillations with sbd
 - ◻ If it is the kicker, why is it worse now?
 - NuMI slip stacking
 - ◻ Goal to get multi-batch slip stacking operational by the end of the year with current intensities.
 - ◻ Need to understand kicker gap loss
 - ◻ $2.5e13$ has been accelerated, but losses have been large. Have to understand the loss.
 - Installing Collimators in MI?
 - ◻ Plan to install a collimation system next shutdown

- Before two stage collimation scheme in place, want to put a primary collimator (30mil tungsten) in. Will put a secondary collimator also.
 - 2 day shutdown.
 - 203 and 302 locations.
 - Making a detailed plan
 - We have an autotune program in the MI8 line that works. Need to make all of the Booster cycles the same?
 - BPM project winding down. Outstanding:
 - 2.5MHz first turn and last turn for Pbars - noise problems.
 - Grounding is not good on the 60 buildings.
 - May need better BPM cables
 - Pbar efficiencies for the shots
 - The over pbar efficiency from RR to MI - 84%, 3.6% RMS.
 - Last 10 stores - 85.7% - after step loss fixed.
 - 96.7%
- **Recycler**
 - Small operating point change.
 - Intellectual exercise?
 - Harder to cool?
 - Not as dense
 - Transfers
 - AC installation is complete in Pelletron.
 - Still need to open up the Pelletron for two to three days.
- **Tevatron**
 - Injection matching issues seen with IPM
 - Tried going in right direction.
 - Was not as clear cut as last data.
 - No changes left in.
 - Pbars want to investigate between Tev and A1 line. Pbar only shot.
 - Problems with Struct BLT. Experts have a handle on it.
 - TEL2 studies
 - Studiers changed the gating on schottkies to single bunch mode and then unaware ops made tune changes on this measurements.
 - Playing with one proton bunch. Want to show they can change the tune (improve the lifetime) of a particular bunch.
 - It is believed that there is more beam-beam effects on the protons.
 - Change in working point in the Tevatron
 - Not doing any studies.
 - New sextupole circuits. Still waiting for supplies to be built (this fall).
 - May be little benefit if we are at a point where we want to cap the initial luminosity.
 - Keep pushing luminosity
 - Crystal collimator - not ready to go. Issues with binding of the linkages. Should be able to be solved in a few weeks. May be putting a new crystal in.
- **External Beams**
 - **SY120**
 - Mtest - surveyers are in now. Finish up this week.
 - Doing as founds - getting elevation of the elements. Issue coming up as elevation of the floor.
 - Roof work -
 - Goal is the middle of December
 - **MTA**
 - Would be able to fit beamline in upcoming shutdown.
 - Need 8 weeks?
 - **NuMI**
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 - **MiniBooNE**
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